

The listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): Device for destruction-free inspection of a conveyor belt (1) made of elastomer material, having a carrying side for the goods to be conveyed, and a running side, as well as having an embedded strength support, whereby the conveyor belt moves, ~~characterized in that~~ wherein a radiation source (4) emits rays in the direction of the belt surface, which rays are so energy-rich that they pass through the conveyor belt, whereby a process computer (15) evaluates the result of the irradiation test.

Claim 2 (Currently Amended): Device according to claim 1, ~~characterized in that~~ wherein the radiation source (4) emits X-rays or gamma rays.

Claim 3 (Currently Amended): Device according to claim 1 ~~or 2, characterized in that~~ wherein the radiation source (4) detects the entire width of the conveyor belt (1).

Claim 4 (Currently Amended): Device according to
~~one of claims 1 to 3~~ claim 1, ~~characterized in that~~ wherein the
radiation source (4) detects the carrying side in the material-free
state.

Claim 5 (Currently Amended): Device according to
~~one of claims 1 to 4~~ claim 1, ~~characterized in that~~ wherein the
radiation source (4) is accommodated in a support stand, particularly
a transportable support stand (3), in particular within its upper
part.

Claim 6 (Currently Amended): Device according to claim 5,
~~characterized in that~~ wherein the support stand (3) is a four-sided
support frame, whereby the conveyor belt (1) runs within the support
frame, particularly within its lower region.

Claim 7 (Currently Amended): Device according to
~~one of claims 1 to 6~~ claim 1, ~~characterized in that~~ wherein the
radiation source (4) is coupled with a control device (12).

Claim 8 (Currently Amended): Device according to
~~one of claims 1 to 7~~ claim 1, ~~characterized in that~~ wherein the

radiation source (4) corresponds with a line sensor (5) with image processor that lies opposite, which is disposed below the running side.

Claim 9 (Currently Amended): Device according to claim 8 ~~in combination with claim 5 or 6, characterized in that~~ wherein the line sensor (5) with image processor is disposed on the support stand (3).

Claim 10 (Currently Amended): Device according to ~~one of claims 1 to 9~~ claim 1, ~~characterized in that~~ wherein the radiation source (4) corresponds with a defect marking system (13).

Claim 11 (Currently Amended): Device according to claim 10, ~~characterized in that~~ wherein the defect marking system (13) is disposed laterally with regard to the conveyor belt (1), specifically in the region between the carrying side and the running side.

Claim 12 (Currently Amended): Device according to claim 10 ~~or 11, characterized in that~~ wherein the defect marking system (13) is coupled with the control device (14).

Claim 13 (Currently Amended): Device according to ~~one of claims 10 to 12~~ claim 10, ~~characterized in that wherein~~ the defect marking system (13) is disposed on the support stand (3).

Claim 14 (Currently Amended): Device according to ~~one of~~ ~~claims 1 to 13~~ claim 1, ~~characterized in that wherein~~

- the entire conveyor belt (1) is divided into finite segments, whereby each segment is provided with a distinct address, so that segment marking occurs, whereby the detection of the address of the segment marking, in each instance, takes place without contact, by means of a first scanning unit; and that

- the finite segments are delimited by a start marking (6), in each instance, whereby the detection of the start marking, in each instance, also takes place without contact, by means of a second scanning unit.

Claim 15 (Currently Amended): Device according to claim 14, ~~characterized in that wherein~~ the finite segments are divided at a distance of 10 to 500 m in length.

Claim 16 (Currently Amended): Device according to claim 14 ~~or~~
~~15, characterized in that~~ wherein the address of the segment
marking as well as the start marking (6) are located within the
belt surface, particularly within the carrying side, in its edge
region.

Claim 17 (Currently Amended): Device according to ~~one of~~
~~claims 14 to 16~~ claim 14, ~~characterized in that~~ wherein the address
of the segment marking and the start marking (6) are separate
marking systems.

Claim 18 (Currently Amended): Device according to claim 17,
~~characterized in that~~ wherein the address of the segment marking is
in the vicinity of the start marking (6).

Claim 19 (Currently Amended): Device according to ~~one of~~
~~claims 14 to 16~~ claim 14, ~~characterized in that~~ wherein the address
of the segment marking and the start marking (6) form a uniform
marking system.

Claim 20 (Currently Amended): Device according to
~~one of claims 14 to 19~~ claim 14, ~~particularly in combination with~~
~~claim 17 or 18~~, ~~characterized in that~~ wherein the address of the

segment marking is a transponder (8), whereby the first scanning unit comprises an antenna (9) and a transponder reader (11).

Claim 21 (Currently Amended): Device according to ~~one of claims 14 to 19~~ claim 14, ~~characterized in that wherein~~ the address of the segment marking and/or the start marking (6) is formed by at least one notch, color strip, reflection zone, metal particle, or permanent magnet.

Claim 22 (Currently Amended): Device according to ~~one of~~ ~~claims 14 to 19~~ claim 14, ~~characterized in that wherein~~ the address of the segment marking and/or the start marking (6) is a code, particularly under the aspect of mechanical, optical, magnetic, electrically conductive, or radioactive detection.

Claim 23 (Currently Amended): Device according to claim 22, ~~characterized in that wherein~~ the code is a bar code or is structured similar to a bar code.

Claim 24 (Currently Amended): Device according to claim 22, ~~characterized in that wherein~~ the code consists of small permanent magnets, particularly in the form of a serial arrangement.

Claim 25 (Currently Amended): Device according to ~~one of~~
~~claims 21 to 24~~ claim 21, ~~characterized in that~~ wherein the first
and second scanning unit are a common detection system,
particularly in the form of a read head (7).

Claim 26 (Currently Amended): Device according to ~~one of~~
~~claims 1 to 25~~ claim 1, ~~particularly in combination with one of~~
~~claims 14 to 25~~, ~~characterized in that~~ wherein it is provided with
an encoder (10).

Claim 27 (Currently Amended): Device according to claim 26,
~~characterized in that~~ wherein the encoder is driven by the conveyor
belt (1) itself.

Claim 28 (Currently Amended): Device according to claim 26,
~~characterized in that~~ wherein the encoder (10) stands in connection
with a movable part of the conveyor that comprises the conveyor
belt (1).

Claim 29 (Currently Amended): Device according to claim 28,
~~characterized in that~~ wherein the encoder (10) is driven by way of
the axle of a non-driven drum (2).

Claim 30 (Currently Amended): Device according to ~~one of~~
~~claims 1 to 29~~ claim 1, ~~characterized in that~~ wherein the process
computer (15) is coupled at least with the radiation source (4),
particularly with other device parts of the stated type.

Claim 31 (Currently Amended): Device according to claim 30,
~~characterized in that~~ wherein the process computer (15) is coupled
with the following device parts, namely with:

- the radiation source (4), ~~particularly in combination with~~
~~claim 7~~, by way of the control device (12);
- the line sensor (5) with image processor;
- the defect marking system (13), ~~particularly in combination~~
~~with claim 12~~, by way of the control device (14);
- the first and second scanning unit, as well as
- the encoder (10).

Claim 32 (Currently Amended): Device according to ~~one of~~
~~claims 1 to 31~~ claim 1, ~~characterized in that~~ wherein the process
computer (15) is coupled with a monitor (16).

Claim 33 (Currently Amended): Device according to ~~one of~~
~~claims 1 to 32~~ claim 1, ~~characterized in that~~ wherein a radiation
protection device is provided, which is particularly disposed on
the support stand (3) or its immediate vicinity.